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Present in clause 2.10 of the curriculum.

2.9 Teaching learning methods

As shown in clause 2.4 course outline.

2.10 Content of each subject in each year

HUMAN ANATOMY

(I) GOAL

The broad goal of teaching of undergraduate students in Anatomy aims at providing comprehensive knowledge of the gross and microscopic structure and development of human body to provide a basis for understanding the clinical correlation of organs or structures involved and the anatomical basis for the disease presentations

(II) OBJECTIVES

At the end of the course the students shall be able to:

(A) Knowledge

- Comprehend the normal disposition, clinically relevant interrelationships, functional and cross sectional anatomy of the various structures in the body.
- Identify the microscopic structure and correlate elementary ultra-structure of various organs and tissues and correlate the structure with the functions as a prerequisite for understanding the altered state in various disease processes.
- Comprehend the basic structure and connections of the central nervous system and analyse the integrative and regulative functions of the organs and systems. He/She shall be able to explain the developmental basis of the major variations and abnormalities.
- Demonstrate knowledge of the basic principles and sequential development of the Organs and systems; recognize the critical stages of development and the effects of common teratogen, genetic mutations and environmental hazards. He /She shall able to explain the developmental basis of the major variations and

abnormalities. (B)Skills

At the end of the course the student shall be able to:

- Identify and locate all the structures of the body and mark the topography of the living anatomy
- Identify the organs and tissues under the microscope
- Understand the principles of Karyotyping and identify the gross congenital anomalies.
- Understand principles of newer imaging techniques and interpretation of Computerized
- Tomography (CT) Scan sonogram etc.
- Understand clinical basis of some common clinical procedures i.e. intramuscular and intravenous injection, lumbar puncture and kidney biopsy etc.



(C)Integration

From the integrated teaching of other basic sciences, students shall be able to comprehend the regulation and integration of the functions of the organs and systems in the body and thus interpret the anatomical basis of disease process.

(III) DETAILED SYLLABUS-DETAILS OF THE COURSE

Duration of the Course	
Semesters	2
Total number of hours	650
Lectures	95
Seminars	37
Practicals	518

Innovation session (projects, structured discussion, integrated teaching, formative evaluation and revision) Part of practicals:

DETAILS OF LECTURES

1	. General Anatomy	:	15hr
•	Epithelium: Classification, simple and compound epithelium, glandular		
	and sensory epithelium	:	2hr
•	Connective tissue: Cells, matrix	:	2hr
•	Cartilage: Classification, structure, cells and matrix	:	1hr
•	Bone: Types, types of epiphysis, microscopy. Ossification in brief, blood supply	:	2hr
•	Joints: Classification and structure of synovial joint	:	1hr
•	Vascular tissue: Elastic artery, medium sized artery, large vein	:	1hr
•	Lymphatic tissue: General features, lymph node- structure and function,		
	spleen, structure and circulation, Tonsil, Thymus	:	2hr
•	Muscular tissue: Structure of Skeletal, Smooth and cardiac Muscles	:	1hr
•	Skin: Structure of thin and thick skin	:	1hr
•	Nervous tissue: Neurons, Neuroglia, peripheral nerve structure optic nerve		
	structure, Schwann cells, myelination, myelinated nerve fibre, Ganglia	:	2hr
2	General Embryology	:	11hr
•	Oogenesis, Ovarian Cycle	:	
	1hr		
•	Menstrual cycle	:	
	1hr		
•	Male reproductive system-Spermatogenesis	:	
	1hr		
•	Fertilization, Implantation, assisted reproductive techniques	:	
	1hr		
•	Bilaminar embryo	:	
	1hr		



•	Trilaminar embryo	:
	1hr	
•	Intraembryonic mesoderm and folding of embryo	:
		2hr
•	Formation and circulation of placenta	:
		1hr
•	Foetal membranes	:
	1hr	
•	Twinning and teratology (Structure of Umbilical cord and placenta	
	to be taught along with General Embryology)	:
	1hr	

2 Gross Anatomy

(X-rays and surface marking of each region to be taken after the dissection of the corresponding region is completed)

Upper Limb	:	4hr
Brachial plexus	:	1hr
Mammary glandShoulder joint:	:	1hr
Palmar space	:	1hr
Seminars (Give more importance to applied Anatomy)	:	8hr
Axilla and Axillary artery	:	1hr
 Venous and lymphatic drainage of upper limb 	:	1hr
 Radio-Ulnar joints, Pronation & supination 	:	1hr
 Brachial artery, Anastomoses around elbow joint 	:	1hr
 Radial nerve, Ulnar nerve, Median nerve 	:	2hr
• Retinacula	:	1hr
 Elbow joint, wrist joint, Ist carpometacarpal Joint 	:	1hr
Lower Limb	:	4hr
• Hip joint	:	1hr
 Arches of foot 	:	1hr
• Knee joint	:	1hr
• Development of Limbs, Dermatomes of Upper and Lower Limbs	:	1hr
Seminars (Give more importance to applied		
 Anatomy) Venous and lymphatic drainage of lower 	:	6hr
limb	:	1hr



 Femoral triangle, Adductor canal 	:	1hr
Obturator nerve, Sciatic Nerve	:	1hr
Femoral artery and nerve	:	1hr
Ankle joint, Popliteal fossa	:	1hr
• Sub talar joint, inversion and eversion	:	1hr
Thorax	:	9 hr
 Thoracic wall (including movements) 	:	1hr
• Pleura	:	1hr
 Lungs including development of lung 	:	1hr
Pericardium	:	1hr
 Blood supply of heart 	:	1hr
Arterial arches	:	1hr
Foetal circulation	:	1hr
 Development of heart 	:	2hr

Seminars (Give more importance to applied Anatomy)

: **5hr**

Mediastinum-Boundaries and contents	:	1hr
Thoracic duct, Esophagus, Thoracic Aorta	:	1hr
Veins of Thorax: 1hr		
Chambers of heart-All chambers	:	1hr
Splanchnic nerves, sympathetic trunk	:	1 hi
Genetics	:	4hr
Classification of chromosomes, karyotyping, sex chromosomes,		
Barr body	:	1hr
Normal male, normal female, Chromosomal aberrations-in brief	:	1hr
• Turner's syndrome, Klinefelter's syndrome and Down's syndromes (Charts tobe shown) Genetic Counseling, Pedigree Chart, Genetic		
Engineering and inheritance		: 2hr



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nead& Neck	•	TYUL
• Scalp	:	1hr
Parotid Gland	:	1hr
 Development of face 	:	1hr
 Pituitary gland 	:	1hr
Dural venous sinuses	:	1hr
Cervical fascia	:	1hr
 Development of branchial arches 	:	1hr
Extra Ocular muscles	:	1hr
• T. M. Joint	:	1hr
 Thyroid gland 	:	1hr
Cervical Sympathetic	:	1hr
	:	1hr
Pharynx	:	1hr
 Larynx 	:	1hr
 Eyeball, Layers-development in brief 		1hr
• Tongue	•	1hr
Facial Nerve	:	1hr

• Middle Ear

Seminars (Give more importance to applied Anatomy)		17hr
 Suboccipital triangle 	•	12111 1 br
• Eyelid and lacrimal apparatus	·	1111 1 h m
Nasal cavity PNS	:	Inr
Soft palate Palatine tonsil	:	1hr
Mussles of facial expression	:	1hr
Muscles of facial expression	:	1hr
 Vessels and nerves of the face 	:	1hr
 Posterior triangle of neck 		: 1hr
 Anterior triangles of neck 		: 1hr
 Mandibular nerve, occulomotor nerve 		: 1hr
 Submandibular and sublingual gland 		: 1hr
 Lymph nodes of head and neck 		: 1hr
Hyoglossus muscle		: 1hr
Brain and Spinal Cord		:15Hr
 Spinal cord- external features and blood supply 		: 1hr
 Blood supply of brain- Superficialand deep, 		: 1hr
Meninges & cisterns		: 1 hr
Medulla oblongata		: 1hr
• Pons		: 1hr



Cerebellum	: 1hr	
• 4th Ventricle	: 1hr	
 3rd Ventricle, Lateral ventricles 	: 1hr	
 Midbrian 	: 1hr	
 Sulci, gyri and functional areas of cortex 	: 1hr	
White matter & Internal capsule	: 1hr	
Visual pathway	: 1hr	
Basal ganglia	: 1hr	
• Thalamus	: 1hr	
Development of CNS IN BRIEF including functional Colur	: 1hr	
Abdomen, Pelvis, and Perineum		: 16hrs
 Anterior abdominal wall and Rectus sheath 		: 1hr
 Inguinal canal, Spermatic cord and descent of testis 		: 1hr
Peritoneum in brief		: 1hr
 Development of GIT, derivatives and anomalies 		:1hr
 Stomach including development 		: 1hr
Portal vein		: 1hr
• Liver		: 1hr
 Kidney -gross features, development and anomalies 		: 1hr
 Diaphram - gross features, development 		: 1hr
• Uterus-gross features, development and anomalies		: 1hr
Prostate and male urethra		: 1hr
Rectum and Anal canal		: 1hr
Urinary bladder		: 1hr
Perineal Pouches		: 1hr
Ischiorectal fossa		: 1hr
• Pelvicfloor		: 1hr
S.		
Seminars (Give more importance to applied Anatomy Lymphatic dr	ainage	
and blood supply of all organs should be given importance		: 6hr

nd blood supply of all organs should be given importance	: 6hr
 Duodenum and development 	: 1hr
• Pancreas, spleen	: 1hr
 Extra hepatic biliary apparatus 	:1hr
 Coeliac trunk, Supra renal gland 	:1hr
 Ureter, Pudendal nerve 	:1hr
 Caecum, Vermiform appendix 	: 1hr

Diagrams

I Cross Section Diagrams

A upper limb



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No.	Name	Fig.	Pg.No	Book
1.	Section through middle of arm	68	68	Cunningham's manual of practical Anatomy 15th Edn Vol. 1
2.	Oblique sectionthrough the hand	88	90	Cunningham's manual of practical Anatomy 15th Edn Vol. 1
B. L	ower limb			
1.	Transverse section through middle of right thigh	80.2	1351	Gray's Anatomy 40 th Edn
2.	Transverse section through middle of leg	182	196	Cunningham's manual of practical Anatomy 15th Edn Vol. 1
3.	Transverse section through knee joint	202	218	Cunningham's manual of practical Anatomy 15th Edn vol.1
C. N	leck			
	Transverse section through the neck at the level of cricoid(C6 level) cartilage	62	76	Cunningham's manual of practical Anatomy 15th Edn Vol-3
D. 1	Thorax			
1	Horizontal section through the thorax at the level of T-4 Vertebra	70	58	Cunningham's manual of practical Anatomy 15th Edn Vol-2
E. A	bdomen			2
1	Horizontal section through the abdomen at the level of epiploic foramen-T12 vertebra	139	124	Cunningham's manual of practical Anatomy 15th Edn Vol-2
2	Horizontal section through the abdomen at the level pylorus L1vertebra	128	116	Cunningham's manual of practical Anatomy 15th Edn Vol-2
3	Horizontal section through the abdomen at the level of -L4	129	116	Cunningham's manual of practical Anatomy 15th Edn Vol-2
F. B	rain			
1	Transverse section of spinal cord showing ascending & descending tracts.	6.8	80	IB singh Text Book of Neuro Anatomy 9 th Edn.
2	Transverse section of medulla at the level of Pyramidal decussation	8.2	96	IB singh Text Book of Neuro Anatomy 9 th Edn.
3	Transverse section of medulla at the level of sensory decussation	8.3	97	IB singh Text Book of Neuro Anatomy 9 th Edn.
4	Transverse section of medulla at the level of olive	8.4	98	IB singh Text Book of Neuro Anatomy 9 th Edn.



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5	Transverse section at the level	8.9	102	IB singh Text Book of Neuro Anatomy
	of lower part of pons (at the			9 th Edn.
	level of facial colliculus			
6	Transverse section at the level	8.11	104	IB singh Text Book of Neuro Anatomy 9 th Edn.
	of upper part of pons			с .
7	Transverse section at the level	8.16	106	IB singh Text Book of Neuro Anatomy 9 th Edn.
	of lower part of mid brain (at			,
	the level of inferior colliculus)			
8	Transverse section at the level	8.19	108	IB singh Text Book of Neuro Anatomy 9 th Edn
Ū	of upper part of mid brain (at	0.15	100	
	the level of superior colliculus)			
9	Horizontal section at the level of	282	286	Cunningham's manual of practical Anatomy
	inter ventricular foramen			15th Edn Vol-3
	II SAGITTAL SECTION			
1	Sagittal section through shoulder	64	65	Cunningham's manual of practical Anatomy
		_		15th Edn Vol-1
2	Median section of brain	238	255	Cunningham's manual of practical Anatomy
-		200	200	15th Edn Vol-3
-	Median section through			
3	malepelvis	235	216	Lunningham's manual of practical Anatomy
	Madian castion through famale		Ģ	15th Lun V01-2
4	nelvis	236	216	Cunningham's manual of practical Anatomy
				15th Edn Vol-2
	111 GROSS ANATOMY	\mathcal{O}		
A	Upper limb			
1		2	6	Cunningham's manual of practical Anatomy 15th Edn Vol-1
2	Brachial plexus	24	33	Cunningham's manual of practical Anatomy
				15th Edn Vol-1
2	Anastomosis around elbow joint	00	0.7	Cunningham's manual of practical Anatomy
5	-	80	02	15th Edn Vol-1
1				
4	Superficial palmar arch 4 Deep	90	92	Cunningham's manual of practical Anatomy
4	Superficial palmar arch 4 Deep palmar arch	90	92	Cunningham's manual of practical Anatomy 15th Edn Vol-1
4 B	Superficial palmar arch 4 Deep palmar arch Lower limb	90	92	Cunningham's manual of practical Anatomy 15th Edn Vol-1
4 B 1	Superficial palmar arch 4 Deep palmar arch Lower limb Femoral triangle	90	92	Cunningham's manual of practical Anatomy 15th Edn Vol-1 Cunningham's manual of practical Anatomy
4 B 1	Superficial palmar arch 4 Deep palmar arch Lower limb Femoral triangle	90 131	92	Cunningham's manual of practical Anatomy 15th Edn Vol-1 Cunningham's manual of practical Anatomy 15th Edn Vol-1
4 B 1 2	Superficial palmar arch 4 Deep palmar arch Lower limb Femoral triangle Longitudinal arches of foot -	90 131 213	92 140 226	Cunningham's manual of practical Anatomy 15th Edn Vol-1 Cunningham's manual of practical Anatomy 15th Edn Vol-1 Cunningham's manual of practical Anatomy



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3	Structures surrounding the hip joint	81.5	1377	Gray's Anatomy 41 st Edn.				
С	Thorax							
1	Typical intercostal space	16	12	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
2	Relations of heart & great vessels to the anterior wall of thorax Surfacemarking- Borders , Surfaces, valves of heart)	53	44	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
3	Sternocostal surface of the heart	51	41	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
4	Mediastinal surface of lung -Left	40	32	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
5	Mediastinal surface of lung - Right	41	33	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
d. Abdomen								
1	Visceral surface of liver	176	156	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
2	Structures seen posterior to the stomach	149	132	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
3	Anterior surface of right and left kidneys showing relations	191	169	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
4	Posterior surface of right and left kidneys showing	190	168	Cunningham's manual of practical Anatomy 15th Edn Vol-2				
e. Head and neck								
1	Diagrammatic section of eyeball	164	184	Cunningham's manual of practical Anatomy 15th Edn Vol-3				
2	Dissection of submandibular region showing hyoglossus muscle	111	13:	Cunningham's manual of practical Anatomy 15th Edn Vol-3				
3	Distribution of cutaneous nerves to Head & Neck	75	9	8 Cunningham's manual of practical Anatomy 15th Edn Vol-3				
f. Br	ain							
1	Circle of willis	196	218	Cunningham's manual of practical Anatomy 15th Edn Vol-3				
2	Blood supply of cerebrum							
а	Inferior Surface	197	198	3 Cunningham's manual of practical Anatomy 15th Edn Vol-3				

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b	Superolateral surface	201	221	Cunningham's manual of practical Anatomy
				15th Edn Vol-3
с	Medial surface	232	250	Cunningham's manual of practical Anatomy
				15th Edn Vol-3
6	Floor of IV ventricle- posterior view	227	243	Cunningham's manual of practical Anatomy
		227		15th Edn Vol-3
7	Sulci, gyri of cerebral hemisphere			
а	Superolateral surface	13.6A	182	IB singh Text Book of Neuro Anatomy 9 th Edn.
b	Medial surface	13.8A	184	IB singh Text Book of Neuro Anatomy 9 th Edn.
с	Inferior Surface	13.10 A	186	IB singh Text Book of Neuro Anatomy 9 th Edn.

The question on the diagrams in the question paper carrying 4 marks

(2marks each in both Paper 1 & paper 2 should be STRICTLY limited from the above list only)

DETAILS OF PRACTICALS- Dissection including Osteology and Histology)

UpperLimb

: 60hrs

- Introduction, Pectoral region and axilla, cutaneous nerves and vessels
- The brachial plexus, Axillary artery
- The dissection of back
- The free upper limb Lymph vesels and lymph nodes of upper limb cutaneous nerves of upper limb and deep fascia of upper limb
- The shoulder- movements of the limb at the shoulder, the shoulder joint
- The arm- Cubital fossa, anterior compartment, Posterior compartment of arm
- The forearm and hand, Palmar aponeurosis, superficial palmar arch, Flexor retinaculum, Flexor tendons
- The arteries and nerves of the flexor compartment of the forearm
- Muscles of the front of the forearm and hand, deep palmar arch, Fascial compartments of the palm
- The extensor compartment of the forearm and the hand, Extensor tendons of the fingers Joints of the upper limb
- Elbow joint, wrist joint, radio ulnar joints, intercarpal, carpo metacarpal & Intermetacarpal joints

Lower limb

: 60 hrs

- Front of thigh, femoral triangle, adductor canal
- Medial side of thigh

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- Gluteal region
- Popliteal fossa
- Back of thigh
- Hip joint
- Front of leg and dorsum of foot, superficial dissection
- Anterior compartment of leg
- Lateral and medial compartments of leg, back of leg
- Sole of the foot I and II layers, III and IV layers, V and VI layers
- Knee joint, Ankle joint, Tibio-fibular and other joints, revision

Thorax

- Introduction: Walls of thorax,
- Cavity of thorax, pleura
- Mediastinum, Root of lungs Autonomic nervous system
- The lungs, Anterior mediastinum
- Middle mediastinum, surface anatomy of the heart, blood supply
- Chambers of heart, right atrium, right ventricle, left ventricle
- Aorta, superior mediastinum arch of aorta, left atrium
- Conducting system of heart, Thoracic part of aorta Vagus, Oesophagus, Thoracic duct, Posterior intercostal vessels,
- Joints of thorax, Revision

Head & Neck

- Cervical vertebrae, Skull, The scalp
- The temple and the face, Nerves and vessels of scalp and superficial temporal region, The superficial dissection of face
- The side of the neck, Posterior triangle, Sub occipital triangle
- The anterior triangle of neck, The median region of the front of neck, subdivisions of anterior triangle,
- The cranial cavity: Structures seen after removal of cerebrum, Anterior cranial fossa, middle cranial fossa, posterior cranial fossa
- Deep dissection of the face: Nerves of the face, Structures in the cheek and lips The eyelids, The lacrimal apparatus
- The orbits, The structures in the orbits ,extraocular muscles, nerves, ophthalmic artery
- The parotid region, The parotid gland, facial nerve, vessels
- The temporal and infratemporal region Temporal fascia, Temporalis muscle The Superficial contents of the infratemporal fossa Temporomandibular joint, The deeper contents of the infratemporal fossa,
- the submandibular gland, mylohohyiod muscle, hyoglossus
- The mouth and pharynx, Pharyngeal wall, subdivisions of pharynx, soft palate
- The cavity of the nose, nasal septum, lateral wall
- The larynx,
- The tongue
- The organs of hearing and equilibrium

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: 30hrs

: 130 hrs



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- The eye ball
- The contents of the vertebral canal,
- The joints of the neck.

Brain

: 42 hrs

- Introduction: The membranes of the brain- meninges
- The blood vessels of the brain
- The medulla, pons,
- The cerebellum, The fourth ventricle The midbrain,
- The cerebrum sulci, gyri & functional areas
- The White matter of cerebrum III ventricle, the lateral ventricle and the choroid fissure
- The thalami and the optic tracts
- The deep dissection of the hemisphere, deep muclei of the telencephalon, The nuclei and connections of the thalamus, Cerebral topography

Abdomen

: 124 hrs

:12 hrs

- Introduction: Anterior abdominal wall muscles, inguinal canal Nerves and vessels of anterior abdominal wall
- Male external genital organs
- Dissection of the loin
- Abdominal Cavity Shape, Boundaries, Divisions of peritoneal cavity Ligaments of liver, Spleen
- Oesophagus, Vagal trunk , Stomach
- Mesentery, Superior mesenteric artery, Inferior mesenteric artery, Arterial anastomosis in GI tract, Structure of small intestine, Large intestine
- Duodenum, Portal vein, Ducts of liver Pancreas, Liver, Gall bladder, Cystic duct
- Abdominal structures in contact with diaphragm Autonomic nervous system Supra renal glands, The kidneys, Abdominal part of ureter
- The diaphragm, The posteriorabdominal wall muscles, The inferior vena cava, Lymph nodes of posteior abdominal wall, The nerves of posterior abdominal wall,
- The pelvic viscera, ovaries, uterine tubes, Pelvic part of ureters
- Urinary bladder, Internal surface of urinary bladder, Ductus deferens, Prostate, Male urethra,
- Uterus, Rectum, Anal canal
- Vessels of lesser pelvis, nerves of lesser pelvis, Obturator nerve, Autonomic nerves
- The muscles of lesser pelvis, pelvic diaphragm
- Joints of pelvis

Perineum

- Ischiorectal fossa,
- Perineal pouches Perineal body, Pudendal canal
 Histology : 60 hrs
 - Epithelium
 - Connective tissue



- Cartilage- Hyaline, elastic, fibro cartilage
- Bone- Compact bone- C.S & L.S
- Muscles- Skeletal, Smooth, cardiac
- Nervous tissue- neuron, nerve fibre, sciatic and optic nerves, sympathetic, spinal ganglia
- Blood vessel- Large and medium sized artery, large and medium sized vein
- Lymphoid tissue- lymph node, spleen, thymus, palatine tonsil
- Skin- thin, thick
- Mammary gland-active &inactive
- Placenta & umbilical cord
- Respiratory system- trachea & lung
- Nervous system- spinal cord, cerebrum cerebellum
- Cornea, retina
- Endocrine system- thyroid, parathyroid, supra renal, pituitary
- Excretory system- kidney, ureter, urinary bladder
- Reproductive system

 a) Male Testis epididymis, vas deferens, prostate
 b) Female ovary, uterus- proliferative and secretory, cervix, fallopian tube

Digestive system

- Salivary glands mucous, serous & mixed,
- Pancreas, liver, gall bladder,
- Tongue filiform, fungiform & circumvallate,
- Oesophagus stomach-fundus, pylorus,
- Duodenum, jejunum, ileum,
- Large intestine, vermiform appendix

Genetics

 Demonstration of karyotyping charts- Normal male, Normal female, Down syndrome, Turner's Syndrome, Klinefelter's Syndrome, Chromosome spread

Prescribed text books

- 1. Cunningham's Manual of Practical Anatomy-3 Volumes
- 2. Essentials of Human Anatomy-A.K.Datta, 3 Volumes
- 3. Inderbir Singh's Text Book of Anatomy 3 volumes
- 4. Human Embryology I.B Singh
- 5. IB Singh's Text Book of Human Neuro Anatomy
- 6. Human Neuro Anatomy-Vishram Singh
- 7. Text Book of Human Histology-Inder Bir Singh
- 8. Surface and Radiological Anatomy-A. Halim & A.C.Das
- 9. Text Book of Osteology by I.B.Singh
- 10. Text Book of General Anatomy-G.P.Pal
- 11. Clinically Anatomy-A Problem solving approach by Neeta V Kulkarni -2 Volumes
- 12. Gross Anatomy Text Books (3 Vol) Dr. Vishram Singh



Reference text Books

- 1. Gray's Anatomy
- 2. Cunningham's text book of Anatomy
- 3. Grant's Atlas of Anatomy
- 4. Langman's Medical Embryology-T. W. Sadler
- 5. Clinical Neuro Anatomy-Richard S Snell
- 6. Essentials of Human Embryolgy- A. K. Datta
- 7. Essentials of Human Genetics- Bhatnagar, Kothari and Lopa Mehta
- 8. Histology Atlas- De Fiore
- 9. Text Book of Histology Hamilton Bailey
- 10. Clinically Oriented Anatomy-Keith L Moore
- 11. Gray's Anatomy for students-Richard L Drake
- 12. The Developing Human-Moore and Persaud
- 13. Clinical Anatomy by Regions Richard S Snell
- 14. Human genetics -S.D.Gangane
- 15. Text Book of Human Histology-Gunasekharan

Evaluation

University Examination

Theory

Paper I- 50 marks ,Paper II- 50 marks

Viva Voce – 20 marks – 4 stations, Embryology, Osteology, Radiology,

Surface marking

Theory-Topic Division

Paper I - General Embryology, General Anatomy, Genetics, Upper Limb, Lower Limb, Thorax

Paper II - Head and Neck, Brain, Abdomen, Pelvis, Perineum

University Practicals

Total 40 marks

- Histology 15 marks
 - a) 14 spotters of ½ mark each to include one Karyotype also
 - b) Discussion 2 slides, one systemic and one general = 4 marks each

• Gross Anatomy - 25 marks

- a) 10 spotters X 1 mark = 10 marks
- b) Discussion
 - i) Above diaphragm 8 marks
 - **ii)** Below diaphragm 7 marks